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Attorney Docket No.: GC590-2-C1				Serial No.: Unassigned	10/663450 waf		
Applicant: Penttila	et al.						
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			US PATENT D	OCUMENTS			
Examiner's	Document					Sub-	Filing
Initial	Number	Date	Name		Class	Class	Date
was	*5,010,182	4/23/91	Brake et al.		536	27	7/28/87
was	*5,874,276	2/23/99	Fowler et al.		435	209	5/24/95
FOREIGN PATENT DOCUMENTS							
Examiner's	Document					Sub-	Translation
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	*0 117 060	8/29/84	EPO	EPO COPY			
	*0 362 179	4/04/90	EPO NO				,
	*2 211 504	7/05/89	UK				
	*WO 99/13646	11/15/90	PCT			<u> </u>	
			OTHER DO	CUMENTS			
Examiner's							
Initials	Author, Title, Date, Pertinent Pages, etc.						
	** Ausubel et al., Current Protocols in Molecular Biology, (1987) Greene Publishing and Wiley Interscience, N.Y., (Supplemental through 1999)						
	"Altschul el et al., "Basic Local Alignment Search Tool," J. of Mol. Biol., Vol. 215, pp. 403-410, 1990.						
	*D. Benson et al., "GenBank", Nucleic Acids Research, Vol. 26, pp. 1-7, 1998						
	*Blond-Elguindi et al., "Affinity Panning of a Library of Peptides Displayed on Bacteriophages Reveals the Binding Specificity of BiP," Cell, Vol. 75, pp. 717-728, November 1993						
	*Chapman et al., "Translational attenuation mediated by an mRNA intron," Current Biology, Vol. 7, pp. 850-859, October 1997						
	*Cox et al., "A Novel Mechanism for Regulating Activity of a Transcription Factor that Controls the Unfolded Protein Response," Cell, Vol. 87, pp. 391-404, November 1996						
	*Cox et al., "Transcriptional Induction of Genes Encoding Endoplasmic Reticulum Resident Proteins Requires a Transmembrane Protein Kinase," Cell, Vol. 73, pp. 1197-1206, June 1993						
	*Dunn-Coleman et al., "Commercial Levels of Chymosin Production by Aspergillus," Bio/Technology, Vol. 9, pp. 976-981, October 1991						
	*Gething et al., *Cell-surface expression of influenza bermaggitutinin from a cloned DNA copy of the RNA gene, *Nature, Vol. 293, pp. 620-625, October 1981						
	*Gietz et al., "Improved method for high efficiency transformation of intact yeast cells," Nucleic Acids Research, Vol. 20, p. 1425, 1992						
	*Gonzalez et al., "Mechanism of non-soliceosomal mRNA splicing in the unfolded protein response pathway," EMBO J., Vol. 18, pp. 3119-3132, 1999						
	*Graham et al., "Characteris	tics of Human Cell Li	ine Transformed	by DNA from Human Adenovirus	Type 5," J. Gen.	Virol. Vol. 36, p	p. 59-72, 1977
	*Hammond et al., "Quality of	ontrol on the secretor	ry pathway," Cur	r. Biol., Vol. 7, pp. 523-529, 1995			
	*Harmsen et al., "Overexpression of binding protein and disruption of the PMR1 gene synergistically stimulate secretion of bovine prochymosin but not plant Thaumatin Joryeast," App. Microbiol. Biotechnol. Vol. 46, pp. 385-370, 1996						
	*Harris et al. *Molecular cloning and nucleotide sequence of cDNA coding for calf preprochymosin," Nucleic Acids Research, Vol. 10, pp. 2177-2187, 1982						
	*Heirkoff et al., *Amino acid substitution matrices from protein blocks," Proc. Natl. Acad. Sci. USA, Vol. 89, pp. 10915-10919, November 1992						

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered

Hess et al., "Cooperation of Glycolytic Enzymes," Adv. in Enzyme Reg., Vol. 7, pp. 149-167, 1968

Examiner

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INCOOM	ATION	DISCL OSHI	RE CITATION
INFURM	MILLON	DISCLUSU	KE CITATION

Attorney Docket No.: GC590-2-C1	Serial No.: Unassigned 10/663, 450 Will				
Applicant: Penttila et al.					
Filing Date: Filed Herewith	Group: Unassigned 1636 Way				
Page 2 of 4	Date of this Submission: September 15, 2003				

	OTHER DOCUMENTS				
	*Hitzeman et al., *Isolation and Characterization of the Yeast 3-Phosphoglycerokinase Gene (PGK) by an Immunological Screening Technique,* J. of Biolog. Chem., Vol. 255, No. 24, pp. 12073-12080, 1980				
	*Holland et al., "Isolation and Identification of Yeast Messenger Ribonucleic Acids Coding for Enclase, Glyceraldehyde-3-phosphate Dehydrogenase, and Phosphoglycerate Kinase," Biochemistry, Vol. 17, No. 23, pp. 4900-4907, 1978				
	*Howard et al., "The unfolded protein response signal transducer trelp promotes secretion of heterologous proteins in Saccharomyces cerevisiae," J. of Cell. Bioch. Suppl., no. 19B, 1995, p.209.				
	*Hsiao et al., "High-frequency transformation of yeast by plasmids containing the cloned yeast ARG4 gene," Proc. Natl. Acad. Sci. USA, Vol. 76, pp. 3829-3833, August 1979				
	*Jeenes et al., * Isolation and characterization of a novel stress-inducible PDH family gene from Aspergillus niger, " Gene, vol. 193, 1997, pp. 151-158.				
	*Kaiser et al., "The use of Phage Lambda Replacement Vectors in the Construction of Representative Genomic DNA Libraries," IRL Press, Oxford, pp. 1-47, 1985				
	*Karlin et al., "Applications and statistics for multiple high-scoring segments in molecular sequences," Proc. Natl. Acad. Sci. USA, Vol. 90, pp. 5873-5877, June 1993				
	*Kawahara et al., * Endoplasmic Reticulum Stress-induced mRNA Splicing Permits Synthesis of Transcriptions Factor Hac1p/Ern4p that Activates the Unfolded Protein Response,* Mol. Biol. of the Cell, Vol. 8, pp. 1845-1862, October 1997				
	*Keown et al., *Methods for Introducing DNA into Mammalian Cells,* Methods in Enzymology, Vol. 185, pp. 527-537, 1990				
	*McMillan et al., "The cellular response to unfolded proteins: intercompartmental signaling," Curr. Opinion in Biotechnology, Vol. 17, pp. 540-545, 1994				
	*Mansour et al., *Disruption of the proto-oncogene int-2 in mouse embryo-defived stem cells: a general strategy for targeting mutations to non-selectable genes,* Nature, Vol. 338, pp. 348-352, November 1988				
	*Mantei et al., "Rabbit β-globin mRNA production in mouse L cells transformed with cloned rabbit β-globin chromosomal DNA," Nature, Vol. 281, pp. 40-46, September 1979				
	*Mather et al., "Establishment and Characterization of Two District Mouse Testicular Epithelial Cell Lines," Biol. of Reprod. Vol. 23, pp. 243-252, 1981				
	*Motenecourt et al., *Selective Screening Methods for the Isolation of High Yielding Cellulase Mutants of <i>Trichoderma reesei</i> ,* Amer. Chem. Society, 181, pp. 289-301, 1979				
	*Mori et al., Palindrome with Spacer of One Nucleotide & Characteristic of the cis-Acting Unfolded Protein Response Element in Saccharomyces cerevisiae," J. Biol. Chem., Vol. 273, No. 18, pp. 9912-9920, 1998				
	Mori et al., "A Transmembrane Protein with a coc2/CDC28-Related Kinase Activity Is Required for Signaling from the ER to the Nucleus," Cell, Vol. 74, pp. 743-756, August 1993				
	*Mori et al., "Cloning of Saccharomyces cervisiae gene ERN4 encodin transcription factor UPRF responsible for the unfolded protein-response (UPR) pathway leading to the induction of ER focalized stress proteins," Chemical Abstracts, Vol. 128, no. 26, 29 June 1998 (1998-06-29) Columbus, Ohio, US *Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins," J. Mol. Biol., Vol. 48, pp. 443-453, 1970 *Pahl et al., "A novel signal transduction pathway from the endoplasmic reticulum to the nucleus is mediated by transcription factor NF-xB," EMBO J., Vol. 14, pp. 2580-2588, 1995 *Parlati et al., "Saccharomyces cerevisiae CNE1 Encodes an Endoplasmic Reticulum (ER) Membrane Protein with Sequence Similarity to Calnexin and Calreticulin and Functions as a Constituent of the ER Quality Control Apparatus," J. Biol. Chem., Vol. 270, pp. 244-253, January 1995				
	*Pearson et al., "Improved tools for biological sequence comparison," Proc. Natl. Acad. Sci. USA, Vol. 85, pp. 2444-2448, April 1988				
	*Penttilaet al., "Expression of Two Trichoderma reesel Endoglucanases in the Yeast Saccharomyces cerevisiae," Yeast, Vol. 3, pp. 175-185, 1987				
	*Perittila et al., "A versatile transformation system for the cellulolytic filamentous fungus Trichoderma reesel," Gene, Vol. 61, pp. 155-164, 1987				
	Punt et al., * Analysis of the role of the gene bipA, encoding the major endoplasmic reticulum chaperone protein in the secretion of homologous and heterologous proteins in black Aspergilli, * Appl. Microbiol. Biotechnol, Vol. 50, pp. 447-454, 1998,				
	*Robinson et al., "Protein Disulfide Isomerase Overexpression Increases Secretion of Foreign Proteins in Saccharomyces cerevisiae," Blo/Technology, Vol. 12, pp. 381-384, April 1994				
Examiner 4	Paleslaght Date Considered 12-16-2005				
Examiner: initial	if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not				
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Filing Date: Filed Herewith	Group: Unassigned /636 MAL			
Page <u>3</u> of <u>4</u>	Date of this Submission: September 15, 2003			

OTHER DOCUMENTS
*Ruchonen et al., "Modifications to the ADH1 promoter of Saccharomyces cerevisiae for efficient production of heterologous proteins," J. of Biotechnology, Vol. 39, pp. 193-203, 1995
*Ruchonen et al., *Efficient secretion of Bacillus amytoliquefaciens α-amytase cells by its own signal peptide from Saccharomyces corevisiae host,* Gene, Vol. 59, pp. 161-170, 1987
*Saloheimo et al., "A novel, small endoglucanase gene, eg15, from <i>Trichoderma reesel</i> isolated by expression in yeast," Mol. Microbiol. Vol. 13, pp. 219-228, 1994
*Saloheimo et al., "The protein disulphide isomerase gene of the fungus <i>Trichoderma reesei</i> is induced by endoplasmic reticulum stress and regulated by the carbon source," Mol. Gen. Genet. Vol. 262, pp. 35-45. 1999
** Sambrook et al., "Molecular Cloning: A Laboratory Manual, New York: Cold Spring Harbor Press, 1989
*Shamu et al., *Oligomerization and phosphorylation of the Ire1p kinase during intracellular signaling from the endoplasmic reticulum to the nucleus,* EMBO J., Vol. 15, pp.3028-3039, 1996
"Sherman, F., "Getting started with Yeast," Methods in Enzymology, Val. 194 pp.3-21, 1991.
"Shoemaker et al., "Molecular Cloning of Exo-Cellobiohydrotase derived from Trichoderma reesei," Bio/Technology, Vol. 1, pp. 691-696, 1983
*Sidrauski et al., "The Transmembrane Kinase Ire1p Is a Specific Endonuclease That Initiates mRNA Splicing in the Unfolded Protein Response," Cell, Vol. 90, pp. 1031-1039, 1997.
*Sidrauski et al., "IRNA Ligase Is Required for Regulated mRNA Splicing in the Unfolded Protein Response," Cell, Vol. 87, pp. 405-413, 1996.
*Smith, T., *Comparison of Biosequences," Adv. In App. Math. Vol. 2, pp 482-489, 1981.
*Solingen et al., "Fusion of Yeast Spherplasts," J. of Bacteriol., Vol. 130, pp. 946-947, 1977.
*Stalbrand et al., *Cloning and expression in Saccharomyces cerevisiae of a Trichoderma reesei ß-Mannanase Gene Containing a Cellulose Binding Domain, "App Environ. Microbiol. Vol. 61, pp. 1090-1098, 1995
*Urlaub et al., *Isolation of Chinese hamster cell mutants deficient in dihydrofolate reductase activity,* Proc. Natl. Acad. Sci. USA, Vol. 77, pp. 4216-4220, July 1980
"Verduyn et al., "Effect of Benzoic Acid on Metabolic Fluxes in Yeasts: A Continuos-Culture Study on the Regulation of Respiration and Alcoholic Fermentation," Yeast, Vol. 8, pp. 501-517, 1992
"Wach et al., "New Heterologous Modules for Classical or PCR-based Gene Disruptions in Saccharomyces cerevisiae," Yeast, Vol. 10, pp. 1793-1808, 1994
Examiner Walchiphorl Date Considered 12-16-2005
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not
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			OTHER DOC	UMENTS			
Examiner's							
Initials	Author, Title, Date, Pertinent Pages, etc.						
	" Wang et al., 2000, Current Genetics, In Press						
	"Welihinda et al., "Protein Serine/Threonine Phosphatase Ptc2p Negatively Regulates the Unfolded-Protein Response by Dephosphorylating Ire1p Kinase," Mol. and Cell. Biol., Vol. 18, pp. 1967-1977, 1998						
	*Wiertz et al., "Sec&1-mediated transfer of a membrane protein from the endoplasmic retizefum to the proteasome for destruction," Nature, Vol. 384, pp. 432-438, 1998						
	*DATABASED EMBL EBI; October 20, 1998 (1998-10-20) *A. nidulans CDNA clone z2g07al.r1*						
	DATABASED EMBL EBI; February 8, 1998 (1998-02-08) A ridulans cDNA clone c7a10a1.f1						
	*DATABASED EMBL EBI; February 8, 1998 (1998-92-08) *A. nidulans cDNA clone i2c04a1.f1*						
	*DATABASED EMBL EBI; May 20, 1998-(1998-05-20) *A. nidulans cDNA clone v1h01a1.r1*						
	*DATABASED EMBL EBI; November 8, 1999 (1999-11-08) *Metarhizium anisopliae mRNA; expressed sequence tog Ma#1855*						
	*DATABASED SWALL EBI; November 1, 1995 (1999-11-01) "HAC1 of S. cervisiae"						
	*DATABASED SWALL EBI; November 1, 1995 (1999-11-01) "Protein phosphatase 2C homlog 2 (PP2C-2) of S. pombe"						
	ATABASED SWALL EBI; October 1, 1993 (1993-10-01) "Ser/Thr protein kinase IRE1 precusor of S. cerevisiae"						
							
	 						
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